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Upscale your career in IT

Microsoft CERTIFIED

AZURE DATA ENGINEER

ASSOCIATE

DP- 203: Microsoft Azure Data Engineer Online

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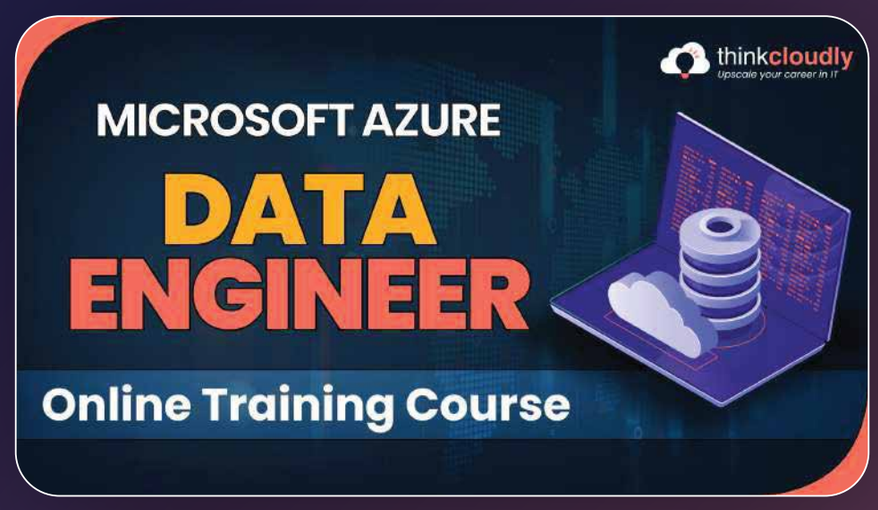
DP-203: Microsoft Azure Data Engineer Online Training Course



Welcome to the Microsoft Azure Data Engineer Course by Thinkcloudly!

In this course, you'll learn how to integrate, transform, and consolidate data from various structured and unstructured sources to create data architectures ideal for analytics solutions. With Azure Data Engineer certification, you'll open doors to a thriving career in Data Engineering, gaining in-demand skills and expertise to stand out in this rapidly growing field.

Why Azure?

2 Million
Jobs Worldwide

$376.36
expected market growth

26.4%
average annual growth

$131,625
average annual salary of an azure expert

Tools We Learn

Azure Functions

Azure SQL DataBase

Azure Cosmos DB

Azure Resource Manager

Azure Security Manager

Azure Container Service

Azure Storage Disc

Azure Load Balancer

key features

Master 25+ Azure Cloud Skills:
Acquire a comprehensive skill set in Azure from industry experts.

Hands-On Labs with 25+ Creations:
Master Azure skills with hands-on lab, Practices and Troubleshooting.

Guaranteed Certificate Assistance:
Receive full support to obtain certifications with a 100% assistance commitment.

Interactive Learning with 15+ Quizzes:
Reinforce your understanding through 15+ quizzes on various Azure.

Azure Data Engineer Online Course

Module 1:

Design and Implement Data Storage

Partition Strategy

- Implement partition strategies for files, analytical workloads, streaming workloads, and Azure Synapse Analytics.
- Identify when partitioning is needed in Azure Data Lake Storage Gen2.

Module 2:

Design and Implement the Data Exploration Layer

Create and Execute Queries

- Create and execute queries using SQL serverless and Spark cluster.

Implement and Recommend Database Templates

- Implement and recommend Azure Synapse Analytics database templates.

Manage Metadata and Data Lineage

- Push new or updated data lineage to Microsoft Purview.
- Browse and search metadata in Microsoft Purview Data Catalog.

Module 3:

Ingest and Transform Data

Data Transformation

- Design and implement incremental loads.
- Transform data using Apache Spark, Transact-SQL (T-SQL), Azure Synapse Pipelines, Azure Data Factory, and Azure Stream Analytics.
- Cleanse, handle duplicates, missing data, late-arriving data, split, shred JSON, encode and decode data.
- Configure error handling for transformations.
- Normalize, denormalize values, and perform exploratory data analysis.

Module 4:

Develop Batch Processing Solutions

Batch Processing

- Develop batch processing solutions using Azure Data Lake Storage, Azure Databricks, Azure Synapse Analytics, and Azure Data Factory.
- Use PolyBase to load data to a SQL pool.
- Implement Azure Synapse Link and query replicated data.
- Create data pipelines, scale resources, configure batch size, create tests, and integrate Jupyter or Python notebooks.
- Upsert data, revert to previous states, configure exception handling and batch retention, and read from/write to a delta lake.

Module 5:

Develop Stream Processing Solutions

Stream Processing

- Create a stream processing solution using Stream Analytics and Azure Event Hubs.
- Process data using Spark structured streaming, create windowed aggregates, handle schema drift, process time series data, and manage data across partitions.
- Configure checkpoints, watermarking, scale resources, optimize pipelines, handle interruptions, and replay archived stream data.

Module 6:

Manage Batches and Pipelines

Batch and Pipeline Management

- Trigger batches, handle failed batch loads, and validate batch loads.
- Manage and schedule data pipelines in Azure Data Factory or Azure Synapse Pipelines.
- Implement version control for pipeline artifacts and manage Spark jobs in a pipeline.

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Azure Data Engineer Online Course

Module 7:

Secure Data Storage and Processing

Data Security

- Implement data masking, encryption (at rest and in motion), and row-level/ column-level security.
- Implement Azure role-based access control (RBAC), POSIX-like ACLs for Data Lake Storage Gen2, and data retention policies.
- Implement secure endpoints, resource tokens in Azure Databricks, and manage sensitive information.

Module 8:

Monitor and Optimize Data Storage and Processing

Monitoring

- Implement logging with Azure Monitor, configure monitoring services, and monitor stream processing.
- Measure performance of data movement, data pipeline performance, and query performance.
- Schedule and monitor pipeline tests, interpret Azure Monitor metrics and logs, and implement a pipeline alert strategy.

Optimization and Troubleshooting

- Compact small files, handle skew and data spill, optimize resource management, tune queries using indexers and cache.
- Troubleshoot failed Spark jobs and pipeline runs, including activities executed in external services.

Azure Data Engineering
Course Learnings

- Managing metadata and data lineage using Microsoft Purview.
- Ingesting and transforming data using Azure Synapse Pipelines.
- Creating and executing queries using SQL serverless and Spark clusters.
- Troubleshooting and optimizing Spark jobs and data pipelines for performance.
- Developing stream processing solutions with Stream Analytics and Event Hubs.

What roles you **can play?**

Data Engineer
Responsible implementing for data designing pipelines and and workflows using Azure Data Factory and Azure Synapse Analytics.

Data Architect
Focuses on creating and maintaining scalable data architectures and data storage solutions in Azure.

Data Warehouse Engineer
Designs and optimizes data warehouse solutions using Azure Synapse Analytics and related technologies.

Big Data Engineer
Develops and manages large-scale data processing solutions using Azure Databricks and Apache Spark.

Data Analyst
Analyzes and interprets complex data sets, using Azure tools to derive insights and support business decisions.

Data Security Engineer
Ensures the protection of data by implementing security measures such as encryption and access control in Azure.

CERTIFICATION

thinkcloudly
Upscale your career in IT
CERTIFICATE
of Completion
By Continuing to learn, you have expanded your perspective, sharpened your skills, and made yourself even more in demand.
This Certificate is awarded to:
For successfully completing the course of
Course Completion
Course Duration: 06-20-2025 To 06-27-2025
NAMAN JAIN
SENIOR TECH MENTOR
SIGNATURE
Issued On: 06-27-2025
Certificate No: TC-062025-8832FVC-XXX

4.9 Average Rating

6500+ Students Got Job

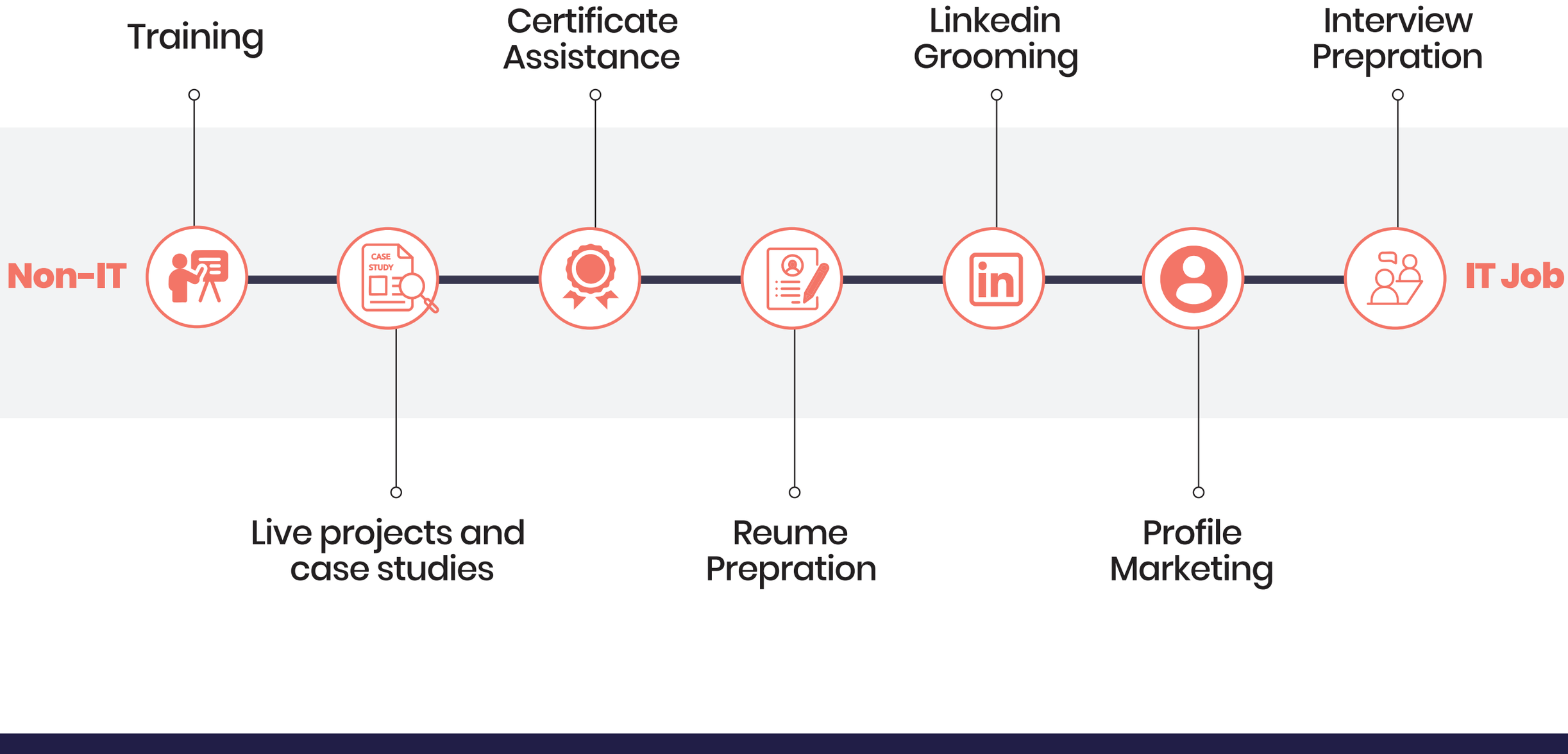
45000+ Satisfied Learners

800+ Highly Qualified Trainers

Our Alumni **Work at**

Microsoft, EY, Oracle, TCS, Red Hat, Google, accenture, Cisco, amazon, Dell, Infosys, KPMG, pwc, cognizant, Deloitte., Netscape, cognizant, Packet Labs, Xerox, Samsung, intuit, acer, Netflix

Our Student's Lifecycle



Who can Apply **For Our Courses?**

This Course is designed by the industry experts for the aspirants who want to pursue a career in IT and management. Our job-oriented Training helps you grab this opportunity and accelerate your career. It is best suited for.

FRESHERS
Who want to get into IT jobs.

Professionals
Who want to learn IT skills.

Managers
Who want to learn technical IT skills.

Aspirants
Who want to get into IT from Non-IT.

What Make Us **Unique**

6500+
Students got placed

800+
Qualified Trainers

300+
Hiring Partners

90%
Avg. Salary Hike

Our Career Services

Personalized Career Counselling
Expert guidance aligning your career with aspirations and strengths.

Small batch Learning Experience
Limited to five students per batch for enhanced focus and engagement.

Practice with Hands-On Labst
Immersive, practical experiences to reinforce theoretical knowledge.

100% Job Assistance
Dedicated to assist at every step of your job search journey.

Lifetime Access to Study materials
Lifetime access to class recordings for continual learning and review.

Certification Assistancet
Comprehensive support to navigate certification processes.

Professional Resume Building
Tailoring resumes to showcase your skills and experiences.

Linkedin Optimization
in Professional assistance to maximize visibility on your Linkedin profile.

HOW TO
ENROLL WITH US?

01

You can check our website thinkcloudly.com and book a demo.

02

Leave your contacts for us and we will reach-out to you.

03

Call or leave a message on whatsapp any time at **+1 (646) 980-6267**

Our Other Paid Services

Online Live Training Course

- 45+ hours of live online Training by industry professionals.
- Practice 25+ Hands-on Labs on Azure Services.
- Lifetime access to study materials notes and recordings.

Real time live projects

- Practice and build 5 real-time live projects.
- Get exposure to real time working environments.
- Become confident in interview discussions.

Certification Assistance

- Certify your skills with expert guidance.
- Stand out in the competitive job market.
- Enhance your professional credibility.

Linkedin & Resume Optimization

- Resume preparation by industry-level resume experts.
- Linkedin profile Grooming by social media experts.
- Increase your probability of securing the desired IT job.

Profile Marketing

- Marketing your Profile in leading 300+ Organizations.
- Bridging the gap between you and your Dream Job.
- Increasing the number of Interview mails and calls.

Mock Interview Sessions

- Get interview preparatory session by professionals.
- Enhance your soft skills and boost up confidence.
- Receive a constructive feedback on your performance.

Praise Paul
★★★★★

Courses are well-structured and engaging, taught by knowledgeable instructors. This platform has played a pivotal role in my career development. Highly recommended for lifelong learners.

Abdmalik Azeez
★★★★★

The classes offered are exceptional, with a diverse array of subjects. The educators are highly skilled and adept at making the learning experience enjoyable. It's a valuable resource for both personal and professional development.

Gertrude Khutjwe
★★★★★

I received the best service as a student at ThinkCloudly. This applies to the course outline, training materials, lecturers, the integrity, the support, the respect all this was an outstanding experience. They even support you all the way e ven after you complete your course.

EGHOSA AIBANGBEE
★★★★★

Am currently enrolled at ThinkCloudly and I am enjoying every mime of it. The team is so helpful. mukesh bari has been great full and wonderful all through his class, I love his teaching, I will definitely recommend anyone who is looking to get into tech toe start with ThinkCloudly. They are so wonderful and helpful

What our students say ?

Emmanuel Student
Website:
Sign up today! And, join our students who are working as IT experts in most reputed companies.
I am looking forward to discussing it with you soon!
How are you
Hey
How are you going?
I'm doing great
I got an offer
Wow. Amazing
Yea
Hard work pays off always
Sure
Awesome News
I just accepted it and the are doing their background checks
Too good
Type a message
Steve
online
Today
Good News Naman!
I'm so excited today and I'm pleased to inform you that I have earned myself a good job as a Cloud Engineering Consultant at one of the largest IT company in the US and Canada
You and your institution ThinkCloudly contributed to this success and I'm so grateful to you guys. To my fellow students, never give up, keep pushing and one day your success story will be share as well.
Wow Steve
You did it!!!!
Which organization Steve?
Accenture
Wow... Big IT service player
Yea. I'm so excited. Hard work pays
Do keep in touch with us. If you need any support! Wish you a good luck
Type a message
Rafaun Student
You
Getting better
Rafaun Student
Great
I had an interview yesterday face to face
Ohh
How did it go
Went through 4 stages and today they gave me call and offered me the job verbally
Wow
Tomorrow will be Sign in
The salary isn't that much high but good for now
I had an interview yesterday face to face
I am very happy for you
You made it brother
Thank you
Type a message

About Thinkcloudly

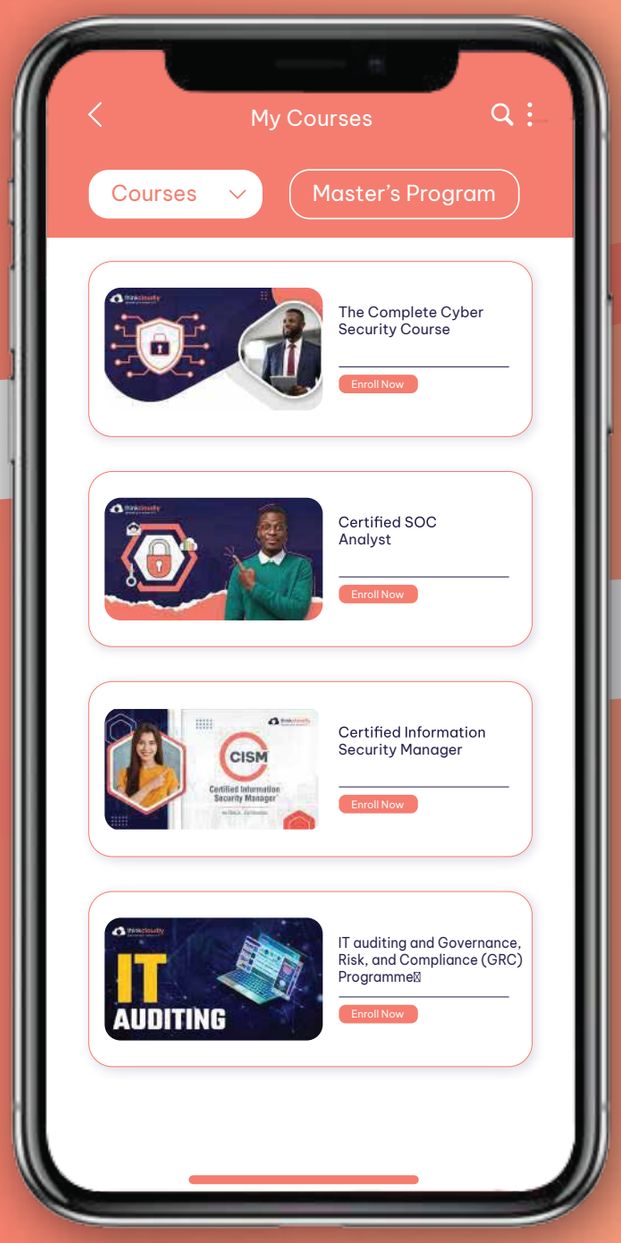
Thinkcloudly is more than an educational platform; it's an ecosystem designed to help you learn, master digital skills, and land your dream job in IT and management. We believe in providing every individual the opportunity for a better life.

At Thinkcloudly, we don't make assumptions we get to know you, understand your strengths and weaknesses, and craft a personalized learning journey.

Our commitment is 24/7, offering not just education but also support, reminders, notes, and recording assistance. Connect with us for knowledge, and together, let's make your dreams a reality!

Our Mission

Our mission is to establish a simplified way to upskill and get a career in IT every individual.



Experience Mobile Adventure!

You can now access the study materials at your fingertips!

GET IT ON Google Play

Ask your queries to our experts!

Our experts are available around the clock to address your queries. Feel free to reach out anytime.

Contact Us

Visit Us : www.thinkcloudly.com

Locate Us : 1111-21 Iceboat Terr, Toronto, Ontario , M5V 4A9

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